



Office of Federal Energy Management Programs

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May 2002



Mission

FEMP works to reduce the cost and environmental impact of Government by advancing energy efficiency and water conservation, promoting the use of renewable and distributed energy, and improving utility management decisions at Federal sites.



FEMP Model

- Set goals
- Plan and implement projects
- Measure performance
- Report progress
- Reward Federal leadership



Current Energy Context

- \$7.6 billion Federal annual energy bill
 - 500,000 facilities
 - Buildings: \$3.4 billion
 - Energy Intensive Operations: \$0.6 billion
 - Exempt Buildings: \$0.3 billion
 - Vehicles & Equipment: \$3.1 billion
- Growing demand for Federal leadership in supply constrained areas



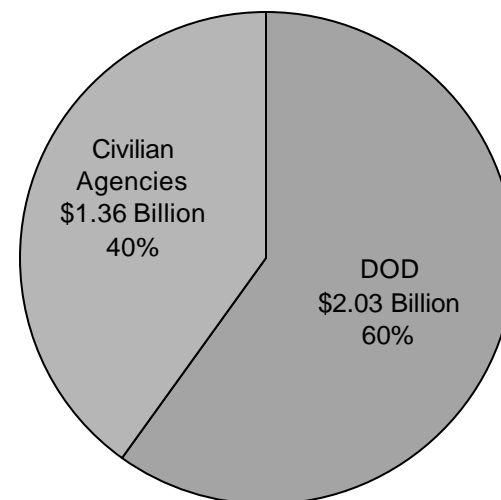


Agency Energy Consumption in Standard Buildings

Agency	Buildings Energy Costs (\$ Million)	Btu per Gross Square Foot	Btu/GSF Change from FY 1985	On-Track to Meet 30% Goal
Defense	\$2,032.3	104,543	-23.5%	✓
Postal Service	\$367.9	74,194	-13.5%	
Veterans Affairs	\$236.8	168,037	-15.4%	
General Services Admin.	\$198.8	66,791	-20.2%	✓
Energy	\$162.1	249,969	-43.7%	✓
Justice	\$83.2	174,527	-40.7%	✓
Transportation	\$55.6	99,800	29.6%	✓
Interior	\$51.1	77,720	-11.6%	
State	\$48.9	60,717	-1.6%	
NASA	\$46.6	202,838	-20.5%	✓
Agriculture	\$28.4	65,259	-23.1%	✓
Labor	\$24.1	102,999	-12.6%	
Treasury	\$8.1	87,384	-12.0%	
TVA	\$8.1	59,995	-27.2%	✓
Commerce	\$7.8	78,814	-34.0%	✓
Health & Human Services	\$3.3	78,829	-17.4%	
Housing & Urban Dev.	\$2.1	74,235	-9.1%	
Other Agencies	\$19.7	124,026	-12.6%	

Based on FY 2000 data

Federal Buildings Energy Costs \$3.4 Billion





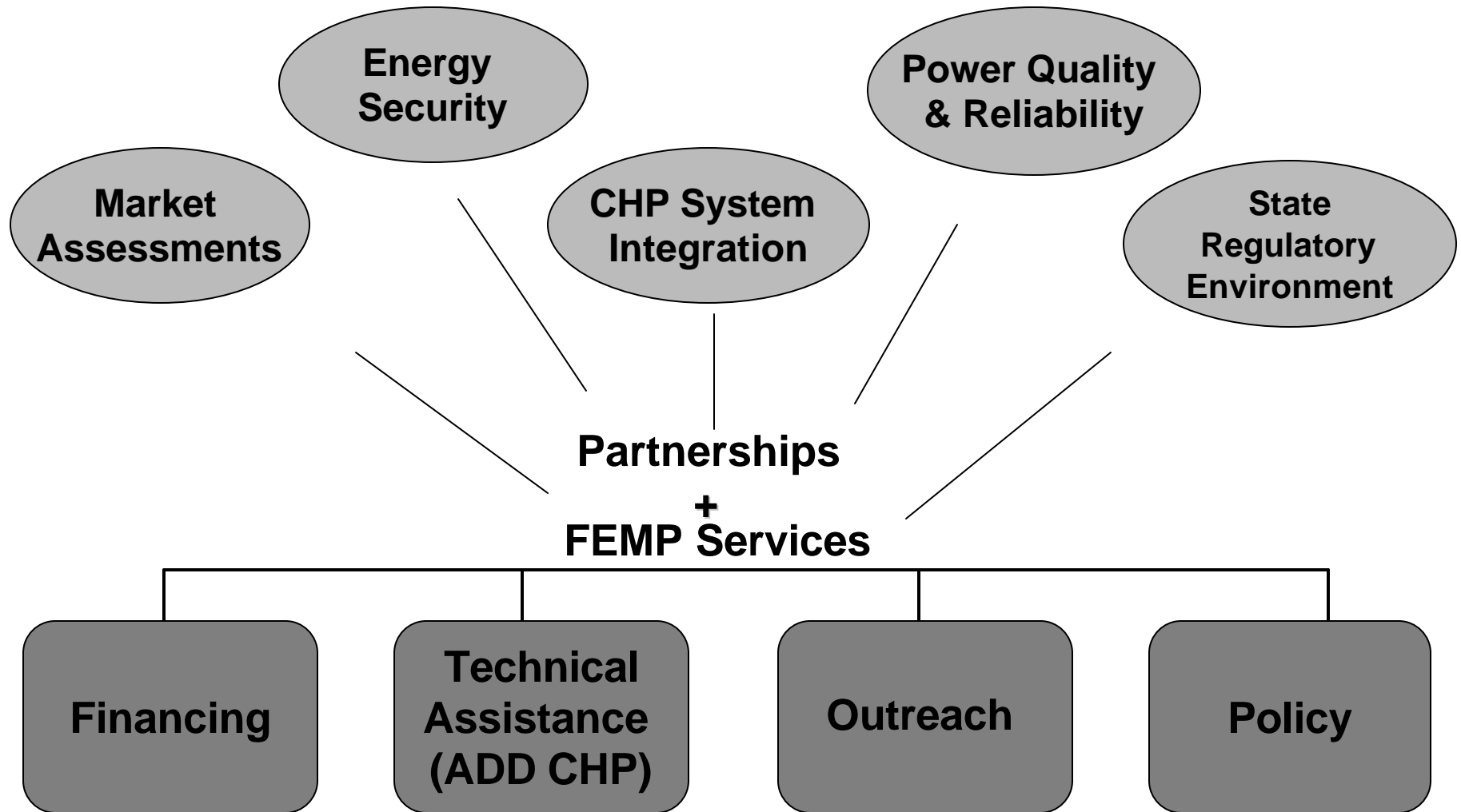
Why DER?

Support Multiple Goals:

- Increase Efficiency and Reliability
- Reduce Costs & Emissions
- Physical Infrastructure for Clean Technologies of Tomorrow (Hydrogen, Fuel Cells)
- Knowledge and institutional capability to manage on-site power systems



Targeting DER Opportunities





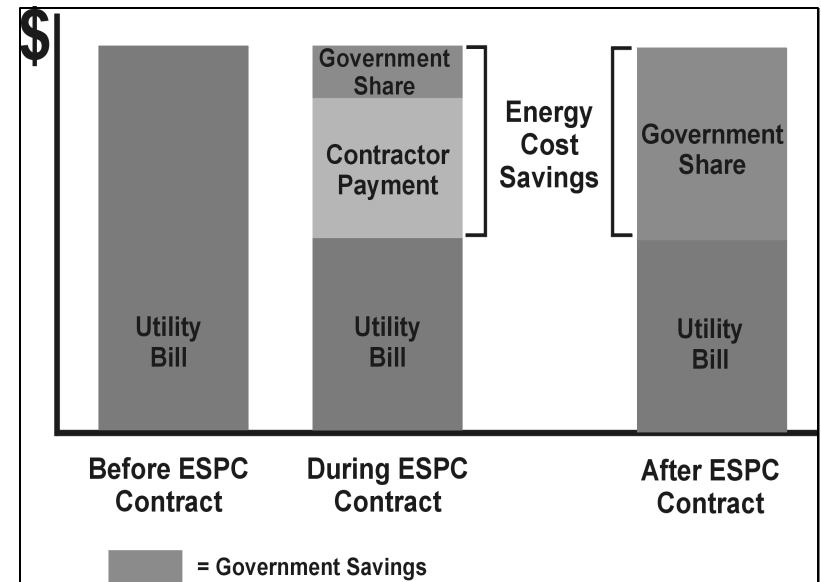
Financing

- Energy Savings Performance Contracts (ESPCs)
- Utility Energy Savings Contracts (UESCs)
- Enhanced Use Lease
- Appropriations



Energy Savings Performance Contracts

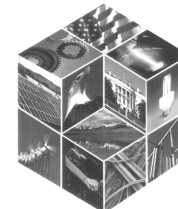
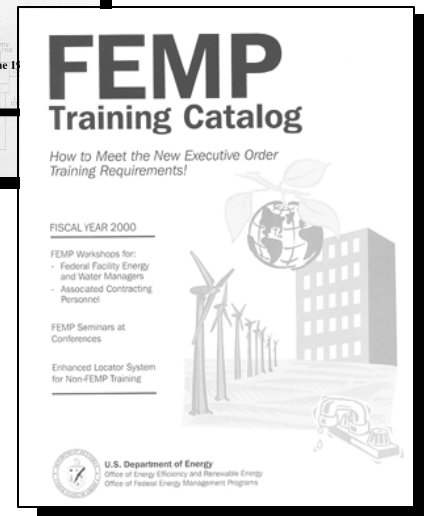
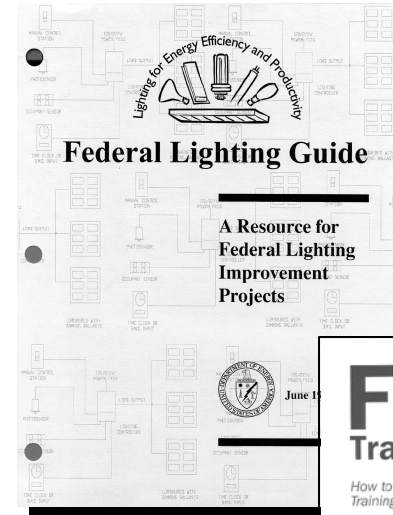
- ESPCs reallocate the Government's utility bill
 - Pay a lower utility bill
 - Pay the contractor
 - Achieve cost savings for the government
- Benefits of ESPCs:
 - Sites reduce their energy use/\$
 - Improves the environment
 - Saves taxpayer dollars
 - Stimulates growth and research in the energy efficiency industry and generates local job growth
 - Non-energy related capital improvements through bundling





Technical Assistance

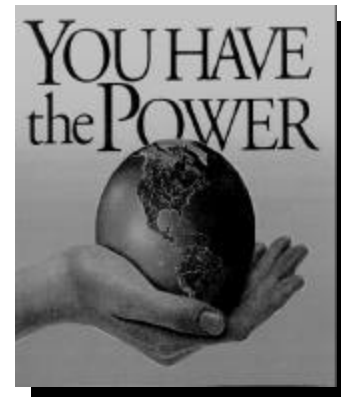
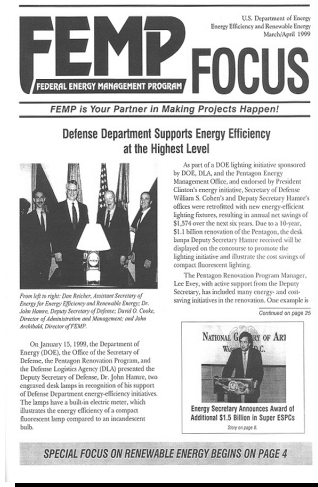
- Design and Technical Assistance
 - SAVEnergy Audits
 - New Construction
 - Distributed Energy Resources
- Technical Information
 - Training
 - FEMP Software Tools
 - Product Recommendations
 - New Technology Demonstration Program
 - Renewable Energy Program





Outreach and Communications

- *FEMP Focus*
- *You Have The Power* Campaign
- Hot Topic Awareness Campaigns
 - Natural Gas
 - Water
 - Electric Load Reduction
- Annual FEMP Conference & Trade Show
- FEMP Annual Awards
- FEMP Web Site
 - www.eren.doe.gov/femp
- EREC Clearinghouse





New Areas of Emphasis

- Peak Load Management
- Distributed Energy Resources
 - Combined Heat and Power
- Industrial and Laboratory Facilities
- Whole Building Design
- Biomass Technology Specific ESPC
- Operation and Maintenance/Commissioning



Major Program Partners

- Federal Agencies/EERE Sectors
- DOE National Laboratories
- Associations
- Utilities
- Equipment Manufacturers
- Industry Partners/Energy Service Companies



Useful FEMP Contacts

- Website: <http://www.eren.doe.gov/femp>
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